

**CHRIST THE KING BOYS MATRIC HR. SEC. SCHOOL,
KUMBAKONAM – 612 001.**

STD: XII

MARKS: 70

SUB: COMPUTER SCIENCE

TIME: 2.30 MINS

HALF – YEARLY MODEL QUESTION PAPER – 3

PART – I

I. CHOOSE THE CORRECT ANSWER:

15*1=15

1. Which of the following defines what an object can do?
a) Operating System b) Compiler c) Interface d) Interpreter
2. The process of subdividing a computer program into separate sub-programs is called _____.
a) Procedural Programming b) Modular programming
c) Event Driven Programming d) Object orient d Programming
3. Which members are accessible from outside the class?
a) Public members b) Protected members c) Secured members d) Private members
4. _____ symbol is used to print more than one item on a single line.
a) Semicolon(;) b) Dollor(\$) c) comma(,) d) Colon(:)
5. In dynamic programming, the technique of storing the previously calculated values is called _____.
a) Saving value property b) Storing value property c) Memoization d) Mapping
6. Which statement is generally used as a placeholder?
a) Continue b) Break c) pass d) goto
7. A named blocks of code that are designed to do one specific job is called as _____.
a) Loop b) Branching c) Function d) Block
8. The subscript of a string may be _____.
a) Positive b) Negative c) Both (a) and (b) d) Either (a) or (b)
9. If List=[17,23,41,10] then List app nd(32) will result _____.
a) [32,17,23,41,10] b) [17,23,41,10,32] c) [10,17,23,32,41] d) [41,32,23,17,10]
10. Class members are accessed thro gh _____ operator.
a) & b) . c) # d) %
11. Which database model represents parent-child relationship?
a) Relational b) Network c) Hierarchical d) Object
12. Which commands provide definitions for creating table structure, deleting relations, and modifying relation schemas?
(A) DDL b) DML c) DCL d) DQL
13. Which of the following creates an object which maps data to a dictionary?
a) listreader() b) reader() c) tuplereader() d) DicReader ()

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14. The expansion of API is _____.
- a) Application Programming Interpreter b) Application Programming Interface
c) Application Performing Interfac d) Application Programming Interlink
15. Which of the following clause avoid the duplicate?
- a) Distinct b) Remove c) Where d) GroupBy

PART – II

II ANSWER ANY 6 QUESTIONS: (Q.No.23 Compulsory)

6*2=12

16. What is meant by Function Specification?
17. Define Scope
18. What are the Key Features of Python?
19. Define the following Functions: a) abs() b) ord() c) chr()
20. What is meant by Reverse Indexing?
21. Define Membership Operators
22. What is meant by dialect?
23. What is the difference between csv.reader() and DictReader()?
24. What are the uses of Data Visualization?

PART – III

III. ANSWER ANY 6 QUESTIONS: (Q.No.28 Compulsory)

6*3=18

25. Define Pair and List
26. What are the two different phases of an Algorithm?
27. Define the Following Data Types: a) Integer b) Floating Point c) Boolean
28. Using if..else..elif statement write a suitable program to display largest of 3 numbers
29. List the differences between break and continue statement?
30. Define Subscript and its types
31. What are the types of DML?
32. What are the Applications of Scripting Language?
33. How to display all records using fetchmany() function

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PART IV

IV. ANSWER THE FOLLOWING QUESTIONS:

5*5=25

34. a) Explain with example Pure and impure functions.

[OR]

b) Explain the types of scopes for variable?

35. a) What is Binary search? Discuss with example.

[OR]

b) Explain the While Loop with Example?

36. a) Explain recursive function with an example.

[OR]

b) Write a program to accept a string and print the number of uppercase, lowercase, vowels, consonants and spaces in the given string.

37. a) Explain the different types of data model.

[OR]

b) Construct the following SQL statements in the student table-

(i) SELECT statement using GROUP BY clause.

(ii) SELECT statement using ORDER BY clause.

38. a) Write a Python program to write a CSV File with custom quotes.

[OR]

b) Explain the purpose of the following functions:

i. plt.xlabel

ii. plt.ylabel

iii. plt.title

iv. plt.legend()

v. plt.show()

// ALL THE BEST